

What is claimed is:

1. A multilayer structure with improved permeation for atmospheric diffusion of aromatic products wherein the structure comprises:
 - (a) a permeable membrane wherein said permeable membrane comprises at least two polymeric layers wherein the polymer of each layer is independently selected from the group consisting of polyethylene, very low density polyethylene, low density polyethylene, ethylene methylacrylate copolymer, ultra low density polyethylene and plastomer;
 - (b) a release layer wherein said release layer comprises a nylon polymer or a ethylene vinyl alcohol copolymer wherein the release layer is adhered to most inner polymeric layer of the permeable member which comprises the permeable membrane and wherein the adhesion between release layer and the adjacent layer of the polymeric permeable membrane is a relatively weak bond compared to the bond between the layers of the polymeric permeable membrane; and
 - (c) an impermeable membrane wherein said impermeable membrane comprises one or more layers wherein the materials which comprise the individual layers of the impermeable membrane are independently selected from metal, foil and poly (ethylene terephthalate) and wherein said impermeable portion is laminated to said release layer.
2. A multilayer structure according to Claim 1 wherein the impermeable membrane comprises:
 - (a) a first adhesive layer comprising an adhesive which is adhered to the release layer of said multilayer structure;
 - (b) a second impermeable layer comprising aluminum foil which is adhered to the first adhesive layer of the impermeable membrane;

- (c) a third adhesive layer comprising low density polyethylene which is adhered to the second impermeable layer of the impermeable membrane; and
- 10 (d) a fourth impermeable layer comprising a polyester which is adhered to the third layer of the impermeable membrane.
3. A multilayer structure according to Claim 1 wherein the impermeable membrane comprises:
- 5 (a) a first adhesive layer comprising primer, polyolefin and ethylene acrylic acid copolymer which is adhered to the release layer of said multilayer structure;
- (b) a second impermeable layer comprising aluminum foil which is adhered to the first adhesive layer of the impermeable membrane;
- 10 (c) a third adhesive layer comprising low density polyethylene which is adhered to the second impermeable layer of the impermeable membrane; and
- (d) a fourth virtually impermeable layer comprising a polyester which is adhered to the third layer of the impermeable membrane.
4. A multilayer structure with improved permeation for atmospheric diffusion of aromatic products wherein the structure comprises:
- 5 (a) a permeable membrane wherein said permeable membrane comprises two or more polymeric layers wherein the polymer of each layer is independently selected from the group consisting of polyethylene, very low density polyethylene, low density polyethylene, ethylene methylacrylate copolymer, ultra low density polyethylene and plastomer; and
- 10 (b) a release layer wherein said release layer comprises a nylon polymer wherein said polymer is selected from the group consisting of poly(ε-caprolactam) and poly(hexamethylene) wherein said release layer is adhered to the innermost polymeric layer of the permeable membrane.

5. A multilayer structure according to Claim 4 with improved permeation for atmospheric diffusion of aromatic products, the structure comprising:

- (a) a first permeable layer comprising low density polyethylene;
- (b) a second permeable layer comprising a semi-crystalline polymer;
- 5 (c) a third permeable layer comprising a material selected from the group consisting of a low density polyethylene and a blend of low density polyethylene and a maleic anhydride polyolefin; and
- (d) a release layer comprising a polymer selected from the group
10 consisting of: nylon or copolymer nylon; wherein said second layer is adhered to said first layer, said third layer is adhered to said second layer, and said release layer is adhered to said third layer, wherein the bond strength between said release layer and said third layer is less than the bond strength between said first and second layers and
15 between said second and third layers; whereby said release layer may be pulled apart from said third permeable layer when a force is applied.

6. A multilayer structure as in Claim 5, wherein the second layer comprises very low density polyethylene.

7. A multilayer structure as in Claim 5, wherein said second layer comprises ethylene-methyl acrylate copolymer.

8. A multilayer structure as in Claim 5, wherein said third layer comprises a blend of low density polyethylene and a modified polyolefin and said release layer comprises nylon.

9. A multilayer structure as in Claim 8, wherein said second layer comprises very low density polyethylene.

10. A multilayer structure as in Claim 8, wherein said second layer comprises ethylene-methyl acrylate copolymer.

11. A multilayer structure according to Claim 4 with improved permeation for atmospheric diffusion of aromatic products, the structure comprising:

- (a) a first permeable layer comprising a blend of very low density polyethylene and low density polyethylene;
- 5 (b) a second permeable layer comprising low density polyethylene;
- (c) a third permeable layer comprising a blend of very low density polyethylene and low density polyethylene;
- 10 (d) a fourth permeable layer comprising a material selected from the group consisting of a blend of low density polyethylene and a modified polyolefin; and
- 15 (e) a release layer comprising a polymer selected from the group consisting of nylon, copolymer nylon, wherein said second layer is adhered to said first layer, said third layer is adhered to said second layer, said fourth layer is adhered to said third layer and said release layer is adhered to said fourth layer, wherein the bond strength between said release layer and said fourth layer is less than the bond strength between said first and second layers, the bond strength between said second and third layers, and the bond strength between said third and fourth layers; whereby said release layer is peeled apart
- 20 from said fourth permeable layer when a force is applied.

12. A multilayer structure as in Claim 11, wherein said fourth layer comprises a blend of low density polyethylene and a modified polyolefin and said release layer comprises nylon.

13. A package with improved permeation for atmospheric diffusion of aromatic products the package, comprising a first heat sealable panel and a second heat sealable panel, said second panel having at least one impermeable layer;

wherein said first heat sealable panel further comprises:

- 5 (a) a permeable membrane having:
- (i) a first permeable layer comprising low density polyethylene,
- (ii) a second permeable layer comprising an semi crystalline polymer, wherein said second layer is adhered to said first layer, and
- 10 (iii) a third permeable layer comprising a material selected from the group consisting of: and a blend of low density polyethylene and modified polyolefin, wherein said third layer is adhered to said second layer;
- (b) a release layer comprising a polymer selected from the group consisting of: nylon, wherein said release layer is adhered to said third
- 15 layer; and
- (c) an impermeable portion having at least one impermeable layer, wherein said impermeable portion is adhered to said release layer;

wherein the bond strength between said release layer and said third layer is less than the bond strength between said first and second layers, said second and third layers and said release layer and impermeable portion, such that said release layer delaminates from said third permeable layer when a force is applied, and wherein said

20 first permeable layer of said first panel is heat sealed to said second panel; whereby an aromatic product may be disposed between said first and second panel.

14. A package as in Claim 13, wherein said second layer comprises very low density polyethylene.

15. A package as in Claim 13, wherein said second layer comprises ethylene-methyl acrylate copolymer.

16. A package as in Claim 13, wherein said third layer comprises a blend of low density polyethylene and a modified polyolefin and said release layer comprises nylon.

17. A package as in Claim 16, wherein said second layer comprises very low density polyethylene.

18. A multilayer package as in Claim 16, wherein said second layer comprises ethylene-methyl acrylate copolymer.

19. A package as in Claim 13, wherein said impermeable portion of said first panel comprises the following structure in order,

- (a) a laminating adhesive,
- (b) a foil layer,
- 5 (c) a polyethylene laminating resin, and
- (d) a polyester film;

wherein said laminating extrusion layer adheres to said release layer.

20. A package as in Claim 13, wherein said second heat sealable panel comprises the following structure, in order:

- (a) a multilayer nylon coextruded film;
- (b) an adhesive; and
- 5 (c) a polyester film

wherein said nylon coextruded film is heat sealed to said first permeable layer.

21. A package with improved permeation for atmospheric diffusion of aromatic products the packaging comprising a first heat sealable panel and a second heat sealable panel, said second panel having at least one impermeable layer;

wherein said first heat sealable panel comprises:

- 5 (a) a permeable membrane having,

- (i) a first permeable layer comprising a blend of very low density polyethylene and low density polyethylene,
- (ii) a second permeable layer comprising low density polyethylene, wherein said layer is adhered to said first layer,
- 10 (iii) a third permeable layer comprising a blend of very low density polyethylene and low density polyethylene, wherein said third layer is adhered to said second layer, and
- (iv) a fourth permeable layer comprising a material selected from the group consisting of low density polyethylene and a blend of low density polyethylene and a modified polyolefin, wherein said fourth layer is adhered to said third layer;
- 15 (b) a release layer comprising a polymer selected from the group consisting of nylon; wherein said release layer is adhered to said fourth layer;
- 20 (c) an impermeable portion having at least one impermeable layer, wherein said impermeable portion is adhered to said release layer;
- wherein the bond strength between said release layer and said fourth layer is less than the bond strength between said first and second layers, said second and third layers, said third and fourth layers and said release layer and impermeable portion, such that said release layer
- 25 delaminates from said fourth layer when a force is applied, and wherein said first permeable layer of said first panel is heat sealed to said second panel, whereby an aromatic product may be disposed between said first and second panel.

22. a multilayer structure as in Claim 21, wherein said fourth layer comprises a blend of low density polyethylene and a modified polyolefin and said release layer comprises nylon.

23. A package as in Claim 21, wherein said impermeable portion of said sealable panel comprises the following structure, in order,

- (a) a laminating adhesive,

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- (b) a foil layer,
 - (c) a polyethylene laminating resin, and
 - (d) a polyester film;

wherein said laminating adhesion layer is adhered to said release layer.

24. A multilayer structure with improved permeation for atmospheric diffusion of aromatic products wherein the structure comprises:

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- (a) a permeable membrane wherein said permeable membrane comprises two or more polymeric layers wherein the polymer of each layer is independently selected from the group consisting of polyethylene, very low density polyethylene, low density polyethylene, ethylene methylacrylate copolymer; and
 - (b) a release layer wherein said release layer comprises an ethyl vinyl alcohol copolymer wherein said release layer is adhered to the innermost polymeric layer of the permeable membrane.
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25. A multilayer structure according to Claim 24 with improved permeation for atmospheric diffusion of aromatic products, the structure comprising:

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- (a) a first permeable layer comprising a blend of very low density polyethylene and low density polyethylene;
 - (b) a second permeable layer comprising low density polyethylene;
 - (c) a third permeable layer comprising a blend of very low density polyethylene and low density polyethylene;
 - (d) a fourth permeable layer comprising a material selected from the group consisting of a blend of low density polyethylene and a modified polyolefin; and
 - (e) a release layer comprising ethylene vinyl alcohol copolymer wherein said second layer is adhered to said first layer, said third layer is adhered to said second layer, said fourth layer is adhered to said third layer and said release layer is adhered to said fourth layer, wherein the
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15 bond strength between said release layer and said fourth layer is less than the bond strength between said first and second layers, the bond strength between said second and third layers, and the bond strength between said third and fourth layers; whereby said release layer is peeled apart from said fourth permeable layer when a force is applied.

26. A package with improved permeation for atmospheric diffusion of aromatic products the package, comprising a first heat sealable panel and a second heat sealable panel, said second panel having at least one impermeable layer;

 wherein said first heat sealable panel further comprises:

- 5 (a) a permeable membrane having:
- (i) a first permeable layer comprising low density polyethylene,
- (ii) a second permeable layer comprising an semi crystalline polymer, wherein said second layer is adhered to said first layer,
- (iii) a third permeable layer comprising a material selected from the
- 10 group consisting of: and a blend of low density polyethylene and modified polyolefin, wherein said third layer is adhered to said second layer;
- (b) a release layer comprising ethylene vinyl alcohol copolymer, wherein said release layer is adhered to said third layer; and
- 15 (c) an impermeable portion having at least one impermeable layer, wherein said impermeable portion is adhered to said release layer;

 wherein the bond strength between said release layer and said third layer is less than the bond strength between said first and second layers, said second and third layers and said release layer and impermeable portion, such that said release layer delaminates from said third

20 permeable layer when a force is applied, and wherein said first permeable layer of said first panel is heat sealed to said second panel; whereby an aromatic product may be disposed between said first and second panel.

27. A package as in Claim 26, wherein said impermeable portion of said first panel comprises the following structure in order,

- (a) a laminating adhesive,
- (b) a foil layer,
- 5 (c) a polyethylene laminating resin, and
- (d) a polyester resin;

wherein said laminating adhesive layer adheres to said release layer.

28. A package as in Claim 26, wherein said second heat sealable panel comprises the following structure, in order:

- (a) a nylon coextruded film;
- (b) an adhesive; and
- 5 (c) a polyester film

wherein said nylon coextruded film is heat sealed to said first permeable layer.

29. A package with improved permeation for atmospheric diffusion of aromatic products the packaging comprising a first heat sealable panel and a second heat sealable panel, said second panel having at least one impermeable layer;

wherein said first heat sealable panel comprises:

- 5 (a) a permeable membrane having,
 - (i) a first permeable layer comprising a blend of very low density polyethylene and low density polyethylene,
 - (ii) a second permeable layer comprising low density polyethylene, wherein said layer is adhered to said first layer,
 - 10 (iii) a third permeable layer comprising a blend of very low density polyethylene and low density polyethylene, wherein said third layer is adhered to said second layer, and
 - (iv) a fourth permeable layer comprising a material selected from the group consisting of low density polyethylene and a blend of low

15 density polyethylene and a modified polyolefin, wherein said fourth layer is adhered to said third layer;

(b) a release layer comprising ethylene vinyl copolymer; wherein said release layer is adhered to said fourth layer;

(c) an impermeable portion having at least one impermeable layer,

20 wherein said impermeable portion is adhered to said release layer;

wherein the bond strength between said release layer and said fourth layer is less than the bond strength between said first and second layers, said second and third layers, said third and fourth layers and said release layer and impermeable portion, such that said release layer delaminates from said fourth layer when a force is applied, and wherein said first permeable

25 layer of said first panel is heat sealed to said second panel, whereby an aromatic product may be disposed between said first and second panel.